SECOND SUBSTITUTE SEQUENCE LISTING

110> Balint, Robert F. Her, Jeng-Horng KaloBios, Inc.

<120> Interaction-Activated Proteins

<130>021167-000700US

<140> US 09/526,106

<141>2000-03-15

<150> US 60/124,339

<151> 1999-03-15

<150> US 60/135,926

<151> 1999-05-25

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<151>2000-01-13

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<170> PatentIn Ver. 2.1

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48

gca cga gtg ggt tac atc gaa ctg gat ctc aac agc ggt aag atc ctt Ala Arg Val Gly Tyr Ile Glu Leu Asp Leu Asn Ser Gly Lys Ile Leu 20 25 30 96

gag agt ttt cgc ccc gaa gaa cgt ttt cca atg atg agc act ttt aaa

Glu Ser Phe Arg Pro Glu Glu Arg Phe Pro Met Met Ser Thr Phe Lys 35 40 45	
gtt ctg cta tgt ggc gcg gta tta tcc cgt att gac gcc ggg caa gag Val Leu Leu Cys Gly Ala Val Leu Ser Arg Ile Asp Ala Gly Gln Glu 50 55 60	192
caa ctc ggt cgc cgc ata cac tat tct cag aat gac ttg gtt gag tac Gln Leu Gly Arg Arg Ile His Tyr Ser Gln Asn Asp Leu Val Glu Tyr 65 70 75 80	240
tca cca gtc aca gaa aag cat ctt acg gat ggc atg aca gta aga gaa Ser Pro Val Thr Glu Lys His Leu Thr Asp Gly Met Thr Val Arg Glu 85 90 95	288
tta tgc agt gct gcc ata acc atg agt gat aac act gcg gcc aac tta Leu Cys Ser Ala Ala Ile Thr Met Ser Asp Asn Thr Ala Ala Asn Leu 100 105 110	336
ctt ctg aca acg atc gga gga ccg aag gag cta acc gct ttt ttg cac Leu Leu Thr Thr Ile Gly Gly Pro Lys Glu Leu Thr Ala Phe Leu His 115 120 125	384
aac atg ggg gat cat gta act cgc ctt gat cgt tgg gaa ccg gag ctg Asn Met Gly Asp His Val Thr Arg Leu Asp Arg Trp Glu Pro Glu Leu 130 135 140	432
aat gaa gcc ata cca aac gac gag cgt gac acc acg atg cct gta gca Asn Glu Ala Ile Pro Asn Asp Glu Arg Asp Thr Thr Met Pro Val Ala 145 150 155 160	480
atg gca aca acg ttg cgc aaa cta tta act ggc gaa cta ctt act cta Met Ala Thr Thr Leu Arg Lys Leu Leu Thr Gly Glu Leu Leu Thr Leu 165 170 175	528
get tee egg caa caa tta ata gae tgg atg gag geg gat aaa gtt gea Ala Ser Arg Gln Gln Leu Ile Asp Trp Met Glu Ala Asp Lys Val Ala 180 185 190	576
gga cca ctt ctg cgc tcg gcc ctt ccg gct ggc tgg ttt att gct gat Gly Pro Leu Arg Ser Ala Leu Pro Ala Gly Trp Phe Ile Ala Asp 195 200 205	624
aaa tet gga gee ggt gag egt ggg tet ege ggt ate att gea gea etg Lys Ser Gly Ala Gly Glu Arg Gly Ser Arg Gly Ile Ile Ala Ala Leu 210 215 220	672

ggg cca gat ggt aag ccc tcc cgt atc gta gtt atc tac acg acg ggg Gly Pro Asp Gly Lys Pro Ser Arg Ile Val Val Ile Tyr Thr Thr Gly 225 230 235 240	720
agt cag gca act atg gat gaa cga aat aga cag atc gct gag ata ggt Ser Gln Ala Thr Met Asp Glu Arg Asn Arg Gln Ile Ala Glu Ile Gly 245 250 255	768
gcc tca ctg att aag cat tgg Ala Ser Leu Ile Lys His Trp 260	789
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Glu Ser Phe Arg Pro Glu Glu Arg Phe Pro Met Met Ser Thr Phe Lys 35 40 45	
Val Leu Cys Gly Ala Val Leu Ser Arg Ile Asp Ala Gly Gln Glu 50 55 60	
Gln Leu Gly Arg Arg Ile His Tyr Ser Gln Asn Asp Leu Val Glu Tyr 65 70 75 80	
Ser Pro Val Thr Glu Lys His Leu Thr Asp Gly Met Thr Val Arg Glu 85 90 95	
Leu Cys Ser Ala Ala Ile Thr Met Ser Asp Asn Thr Ala Ala Asn Leu 100 105 110	
Leu Leu Thr Thr Ile Gly Gly Pro Lys Glu Leu Thr Ala Phe Leu His 115 120 125	

Asn Met Gly Asp His Val Thr Arg Leu Asp Arg Trp Glu Pro Glu Leu 130 135 140 Asn Glu Ala Ile Pro Asn Asp Glu Arg Asp Thr Thr Met Pro Val Ala 145 150 155 160 Met Ala Thr Thr Leu Arg Lys Leu Leu Thr Gly Glu Leu Leu Thr Leu 165 170 175 Ala Ser Arg Gln Gln Leu Ile Asp Trp Met Glu Ala Asp Lys Val Ala 180 185 190 Gly Pro Leu Leu Arg Ser Ala Leu Pro Ala Gly Trp Phe Ile Ala Asp 195 200 205 Lys Ser Gly Ala Gly Glu Arg Gly Ser Arg Gly Ile Ile Ala Ala Leu 210 215 220 Gly Pro Asp Gly Lys Pro Ser Arg Ile Val Val Ile Tyr Thr Thr Gly 225 230 235 Ser Gln Ala Thr Met Asp Glu Arg Asn Arg Gln Ile Ala Glu Ile Gly 245 250 255 Ala Ser Leu Ile Lys His Trp 260 <210>3 <211>5 <212> PRT <213> Artificial Sequence <220> <223> Description of Artificial Sequence:linker <400>3 Gly Gly Gly Ser 5 1 <210>4 <211>15 <212> PRT

<213> Artificial Sequence

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His His His His His
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<221> REPEAT
<222>(1)..(5)
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1
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Phe Ile Asp Cys Gly Arg Leu Gly Val Ala Asp Arg Tyr Gln Asp Ile

<211> 16

220

Ala Leu Ala Thr Arg Asp Ile Ala Glu Glu Leu Gly Gly Glu Trp Ala 225 Asp Arg Phe Leu Val Leu Tyr Gly Ile Ala Ala Pro Asp Ser Gln Arg 240 245 250 255 Ile Ala Phe Tyr Arg Leu Leu Asp Glu Phe Phe 265 260 <210>8 <211>18 <212> PRT <213> Artificial Sequence <220> <223> Description of Artificial Sequence: CD40-binding Trxpep <400>8 Cys Gly Pro Lys Glu Leu Arg Ile Gly Gly Arg Pro Arg Arg Pro Gly 5 10 15 Pro Cys <210>9 <211>18 <212> PRT <213> Artificial Sequence <220> <223> Description of Artificial Sequence: CD40-binding Trxpep <400>9 Cys Gly Pro Glu Gly Gln Gly Gly Val Ala Val Gly Gly Val Gly Gly 1 5 15 Pro Cys <210> 10

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                                    10
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                                  10
                                                      15
Leu Gln Pro Gly Ala
            20
<210>12
<211>18
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<400> 12
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                5
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Pro Cys
<210> 13
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Gly Pro Cys
<210>14
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1
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                                   10
                                                      15
Pro Cys
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<211>23
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<400> 15
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                                    10
                                                        15
Leu Tyr Tyr Ile Tyr Ala Gln
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20

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Pro Cys
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                                    10
Pro Gln
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                5
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Leu Leu
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   Trxpep
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                                     10
                                                       15
Pro Cys
<210>23
<211>18
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   Trxpep
<400> 23
Cys Gly Pro Val Val His Ile Lys Thr Asn Glu Gln Ala Ala Pro Gly
                                  10
Pro Cys
<210> 24
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                                                       15
Pro Cys
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Pro Val Pro Glu Tyr Ile Asn Gln Ser
<210>26
<211>5
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Pro Gly Ser Gly Gly
<210> 27
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Ala Arg Val Gly Tyr Ile Glu Leu Asp Leu Asn Ser	Gly Lys Ile Leu
20 25	30
Glu Ser Phe Arg Pro Glu Glu Arg Phe Pro Met Me	et Ser Thr Phe Lys
35 40	45
Val Leu Cys Gly Ala Val Leu Ser Arg Ile Asp 50 55 60	Ala Gly Gln Glu
Gln Leu Gly Arg Arg Ile His Tyr Ser Gln Asn Asp 65 70 75	Leu Val Glu Tyr 80
Ser Pro Val Thr Glu Lys His Leu Thr Asp Gly Met 85 90	t Thr Val Arg Glu 95
Leu Cys Ser Ala Ala Ile Thr Met Ser Asp Asn Thr 100 105	Ala Ala Asn Leu 110
Leu Leu Thr Thr Ile Gly Gly Pro Lys Glu Leu Thr	Ala Phe Leu His
115 120	125
Asn Met Gly Asp His Val Thr Arg Leu Asp Arg Ti 130 135 14	
Asn Glu Ala Ile Pro Asn Asp Glu Arg Asp Thr Thr	Thr Pro Val Ala
145 150 155	160
Met Ala Thr Thr Leu Arg Lys Leu Leu Thr Gly Gl	u Leu Leu Thr Leu
165 170	175
Ala Ser Arg Gln Gln Leu Ile Asp Trp Met Glu Ala	Asp Lys Val Ala
180 185	190
Gly Pro Leu Arg Ser Ala Leu Pro Ala Gly Trp	Phe Ile Ala Asp
195 200	205
Lys Ser Gly Ala Gly Glu Arg Gly Ser Arg Gly Ile 2 210 215 220	Ile Ala Ala Leu
Gly Pro Asp Gly Lys Pro Ser Arg Ile Val Val Ile T	yr Thr Thr Gly
225 230 235	240
Ser Gln Ala Thr Met Asp Glu Arg Asn Arg Gln Ile	Ala Glu Ile Gly

245 250 255

Ala Ser Leu Ile Lys His Trp
260

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